closer the center of the sensor area can be to higher efficiency. Proposal 1 was an energy efficient combination based on the LEACH routing protocol developed for mobile sink was the basis for initial research. Proposal 2 was most effective when considering clustering based on fuzzy logic with the mobile sink model. The two proposals are designed, compared to LEACH, CHEF and more effective to work with homogeneous sensor environments. Both introduced proposals are enhanced with mobile sink according to predictable path for data collection mechanism, which determines the better sink motion status relative to the network life. In conclusion, the proposed combination of fuzzy clustering and mobile sink demonstrates the superiority of LEACH and CHEF protocols on network lifetime.

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